BFS Winter 2025 | March 10, 2025

STEM X Business





Sign in and keep an eye out for the password!

Future Workshop Requests



TABLE OF CONTENTS

01.

Why?

Why pick up STEM skills an Econ Major?



What?

What careers are available?



Skills

Technical Skills needed for a STEM career

Similarities in STEM and

Business

Data Analysis and Decision Making

- Data is used in decision making
- Important to have basic understanding of how to read data

Project Mgmt &

Collaboration

- Group work is used in all jobs
- Very common interview question



Knowing more only makes you

more cracked



Advantages of a STEM

"Mindset"

- Analytical
- Strength in research
- Critical thinking
- Logical
- Technical skills

Applies to ALL majors!

Advantages of a Business

"Mindset"

- NETWORKING
- Interpersonal skills
- Looking at the big picture (management)
- "Soft" skills

BUSINESS MAJORS IN STEM

Advantages: Make key decisions that help companies grow, less competition, easier to stand out, good job security, cross-disciplinary learning, less demanding hours (usually), new career paths

Opportunities: product manager, auditor, controller, CFO, sales, marketing, supply chain, human resources

The Pitch: But why do "business" when you're a STEM kid?

You're needed!

- High Demand for Interdisciplinary Skill Sets
- Career Flexibility (Leadership Roles)
- Engineering & Innovation
- Cybersecurity / Info Tech
- Financial modelling / AI incorporation in business



Desired:

- 3.2 minimum GPA preferred
- Technical skills such as Excel and PowerPoint
- Major or minor of studies in a field of Quantitative Finance, Financial Engineering, or a related technical field that blends advanced quantitative methods with finance and economics is a plus
- Experience managing and analyzing large data sets using data science tools such as artificial intelligence and machine learning
- Knowledge of coding and programming skills, including but not limited to Bloomberg, FactSet, Python, R, or equivalent

Good Majors/Minors to incorporate

Majors: Math/Econ, Statistics & Data Science, Data Theory, anything Mathy, Financial Actuarial Mathematics, Computer Science

Minors: Stats, BioStats, Social Data Science, Data Science Engineering, anything Mathy

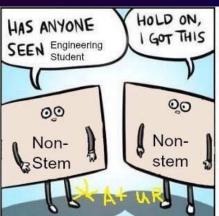
MFEs, MBAs... and MSBAs?

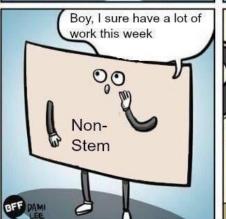
Some of your options:

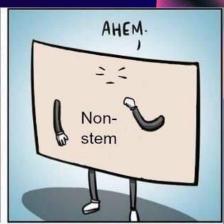
- Master in Business Administration (with focus!)
- Master in Financial Engineering
- Master of Science in BusinessAnalytics

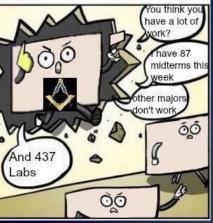
Password: STEM











Examples of Jobs with Technical Skills

Financial Analyst

Evaluates financial data to help companies make investment decisions

Hedge Funds

Manages investments using various strategies to maximize returns

Investment Banking

Advises companies on raising capital, M&A, and other transactions

Quant

Develop trading strategies and assess financial risk

Financial Engineering

Uses mathematical models to develop complex financial products and algorithms

FinTech

Applies technology to improve financial services

Example field: Quant

- Algorithmic trading, complex financial models
- Front office and Back office quants
 - Front office: build pricing and trading tools
 - Back office: validate models, research, risk management
- Important STEM Skills: Matlab, C++, Java
- Wanted Majors: Computer Science, Data Science, Statistics, Math, etc.

Data Analytics and Business

Business firms hire STEM majors like Data Science and Statistics:

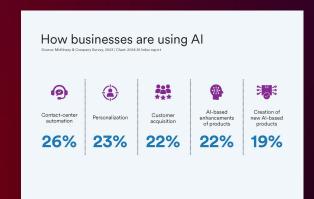
- Gain insights into markets (Consumer Data and Digital Footprint)
- Decisions on data trends
- Efficiency and risk
- Consumer taste and preferences

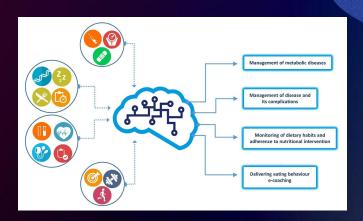
Marketing, Consulting, Sales, etc

Careers such as the ones listed above typically require a lot of product knowledge. While it's not necessarily a technical skill, those looking into those roles should be highly knowledgeable in these fields (ex: healthcare and tech consulting)

Al in business

- Al and ML
- Efficiency and Algorithmic trading
- Image recognition and visual data





IMPORTANT TECHNICAL SKILLS

Anyone in Finance

Excel (MUST KNOW), Tableau is nice to know

Coding

Python, R, SQL, Java, C++, MatLab

Specific Libraries

Pandas, NumPy, SciPy, QuantLib

WAYS TO DEVELOP TECHNICAL SKILLS AND WORK ON PROJECTS

On Campus Clubs Kaggle

Research Labs

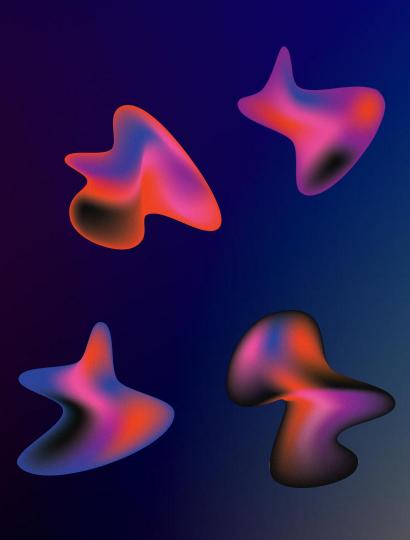
YouTube

WILL AI TAKE YOUR JOB?

Al is widely used in finance for fraud detection, risk assessment, and algorithmic trading

There are many Al softwares that are used, and it is important that you know how to use them

Al itself will not take your job, but if you don't know how to properly use Al softwares, someone who knows how to use it may take your job



Speaking of Al...

A little bit to think about and discuss. Deepseek?

Open source innovation - allows for developers worldwide to access, modify, build upon its models

It's impact?

- On firms
- On financial markets

Want to explore more?

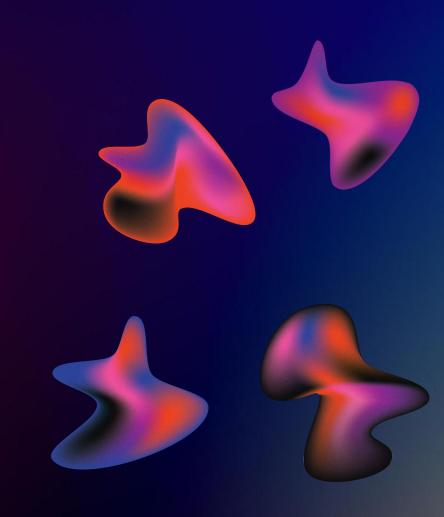
Harvard Business Review

TLDR

Morning Brew

Short Squeez

Perplexity



See you next quarter!

Dining hall run

afterwards!



OUR SERVICES

Service One

Elaborate on what you want to discuss.

Service Three

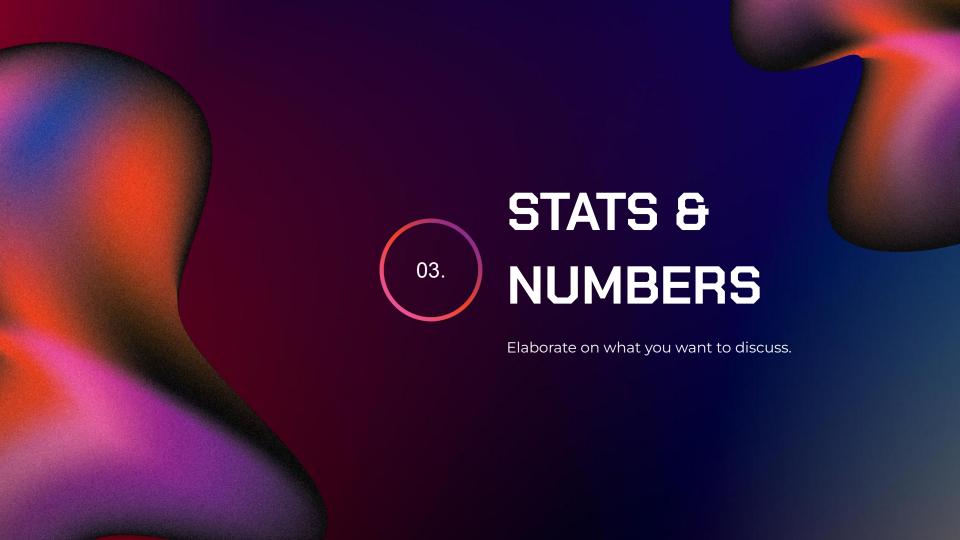
Elaborate on what you want to discuss.

Service Two

Elaborate on what you want to discuss.

Service Four

Elaborate on what you want to discuss.





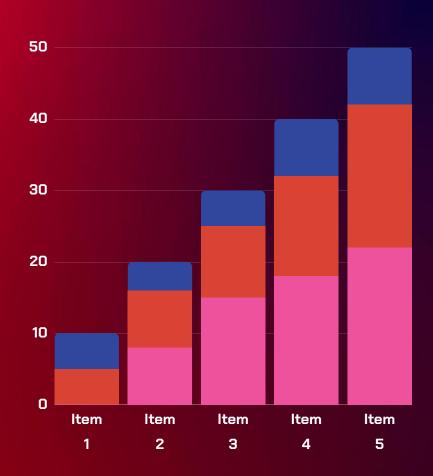
Flaborate on the featured statistic.

Elaborate on the featured statistic.

95%

Elaborate on the featured statistic. 12 MILLION

Elaborate on the featured statistic.

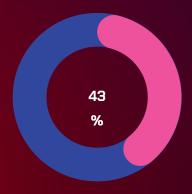


WRITE YOUR TOPIC OR IDEA

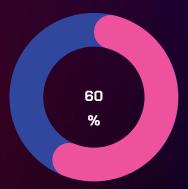
Elaborate on what you want to discuss.

INFOGRAPHIC SLIDE REPORT

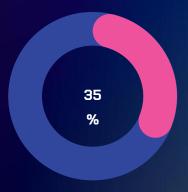
Elaborate on the featured statistic



Elaborate on the featured statistic.



Elaborate on the featured statistic.



Elaborate on the featured statistic.